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THIRTEENTH ANNUAL REPORT

OF THE

NEW MEXICO COLLEGE OF AGRICULTURE

AND

MECHANIC ARTS

TO THE

GOVERNOR

For the Year Ending November 30, 1902.

SANTA FE, N. M.:
NEW MEXICAN PRINTING COMPANY,
1902.

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New Mexico College of Agriculture and Mechanic Arts.

ANNUAL REPORT.

To His Excellency, Miguel A. Otero, Governor of New Mexico:

SIR: In compliance with Sections 3 and 4, of Chapter XCVIII, of the Acts of the Thirty-Fourth Legislative Assembly of New Mexico, approved March 21, 1901, I have the honor to submit in behalf of the Board of Regents, the thirteenth annual report of the New Mexico College of Agriculture and Mechanic Arts. for the fiscal year ending November 30, 1902, including the financial statement of the Treasurer.

The Board of Regents, as at present constituted, consists of the following members: Granville A. Richardson, of Roswell, President, whose term expires in 1905; Herbert B. Holt, of Las Cruces, Secretary and Treasurer, whose term expires in 1903; Seaman Field of Deming, whose term expires in 1906; Jose Lucero, of Las Cruces, whose term expires in 1907. Ex-Officio members. Miguel A. Otero, Governor, of Santa Fe, and J. Franco Chaves, Superintendent of Public Instruction, Santa Fe.

The officers of the College and station, with a few exceptions, remain the same as given in the last report. They are as follows: Luther Foster, M. S. A., President, Professor Political Economy, and Director of the Experiment Station; Clarence T. Hagerty, M. S., Professor of Mathematics and Astronomy; Arthur Goss, M. S., A. C., Professor of Chemistry and Station Chemist; Hiram Hadley, A. M., Professor of History and Philosophy; Elmer O. Wooton, A. M., Professor of Biology, in charge of Geology, and Station Botanist; Francis E. Lester, Registrar and Principal of

Department of Stenography; John Dabney Tinsley, B. S., Professor of Physics, Vice-Director, and Soil Physicist of the Station; Alice Horning, B. S., Professor of Domestic Science, Dean of Women, and Matron of Women's Hall; John J. Vernon, M. S. A., Professor of Agriculture and Horticulture, and Station Agriculturist; D. M. Richards, A. B., Principal of the Preparatory Department; Edith Davis, B. A., Professor of English and Latin; Merritt L. Hoblit, M. A., Professor of Spanish; Charles Mills, Professor Mechanical Engineering and Superintendent of Buildings; Raleigh Frederick Hare, M. S., Assistant Professor of Chemistry and Assistant Station Chemist; Fabian Garcia, B. S., Assistant Professor of Horticulture and Station Horticulturist; Geraldine Combs, Assistant in Preparatory Department; Archie Bruce Sage, B. S., Assistant Professor of Mechanical Engineering; Charlotte A. Baker, Librarian and Assistant in English; Frances Elizabeth Blakesley, B. L., Assistant in the Preparatory Department; John Oliver Miller, B. S., Assistant to the Registrar and in the Department of Stenography and Typewriting; Elizabeth E. Shimer, Assistant in the Preparatory Department; Clara Louise Foster, B. S., Assistant in Domestic Science; James Stanislaus McGregor, B. S., Assistant in Mechanical Engineering Department; Pinckney Ford, Assistant in Department of Stenography and College Stenographer; Charles L. Post, M. S., Assistant in the Department of Chemistry; H. C. McLallen, M .S. A., Assistant in Agriculture.

As indicated above, since the last report, there have been but few changes in the faculty of the institution. Professor Frank W. Brady, who had been at the head of the Engineering Depaatment for the past five years, resigned the position, to take effect June 30th, and was succeeded by Professor Charles Mills, who had been assistant in the department for the past nine years. Professor William A. Sutherland, a graduate of the institution, who had been in charge of the Department of Spanish and Latin for two years, also resigned, to take effect at the same time, and was succeeded by Professor M. L. Hoblit, of the Chicago University. In addition to these two important changes, Mr. A. B. Sage was promoted to the position of Assistant Professor of Mechanical Engineering, and Mr. J. S. McGregor, a recent graduate of the College, was elected to the position made vacant by Mr. Sage's promotion. Miss Clara L. Foster, a graduate of the Utah Agricultural College, was made assistant in the Department of Domestic Science, and placed in charge of the work of sewing; Mr. H. C. McLallen, a graduate of Cornell University, was employed as assistant in the Agricultural Department; Miss Elizabeth E. Shimer, a well-known teacher of Albuquerque, was added to the teaching force of the Preparatory Department; Miss Pinckney Ford, a former student of the Stenography Department, succeeded Miss Helen M. McGregor as stenographer, the latter having resigned after a number of years' faithful and competent service.

The attached financial statement of the Territorial fund shows the present financial condition of the College and and the relatively small portion of its running expenses paid by the Territory. It was hoped that the present overcrowded condition would be relieved by the bond issue authorized by the last session of the Legislature, but the failure of Congress to approve the act has made it very difficult for the institution to successfully carry on its work of instruction or properly care for the students otherwise. It is now urgent that the annual appropriation be largely increased in order to relieve this cramped condition, and provide for the many who are now seeking admission, but who cannot be accommodated with our present limited dormitory capacity. This is also necessary in order to comply with the terms of our acceptance of the Government funds, and obtain even medium results from their legitimate use.

The year, just completed, has been one of the most successful in the history of the institution. The progress made by both the College and the Experiment Station has been very satisfactory. The attendance has been unusually large, and the spirit of general harmony that prevails throughout is most commendable.

Attention is called to the subjoined reports of the President and other officers of the College. From these a more comprehensive idea will be gained of the scope and character of the work the institution is doing and of its present condition and needs.

Respectfully submitted,
H. B. HOLT,
Secretary and Treasurer.

PRESIDENT'S REPORT.

To the Board of Regents of the New Mexico College of Agriculture and Mechanic Arts:

Herewith is submitted a report of the President and the heads of departments of the New Mexico College of Agriculture and Mechanic Arts for the fiscal year ending November 30, 1902, together with a condensed financial statement of the Treasurer for the same period.

The year has been one of the most prosperous in the history of the College, and has been marked not only by important additions to the work, but also by the general harmony that has prevailed in connection with the united effort to advance the institution and make the general character of its work second to none of its kind.

Courses of Study.

In recognition of the need of the proper training for the making and the management of the home, the Regents added a complete course in Domestic Science to the curriculum. This provides for instruction in cooking, sewing, and all things else pertaining to the home. A kitchen laboratory and sewing room have been provided with the necessary equipment for instruction, and a large number of young ladies are already pursuing this course.

After repeated applications to the War Department during the last dozen years, for the detail of a United States army officer to organize and take charge of a military department, the request was granted, and Colonel Alfred S. Frost was detailed October 30th as Professor of Military Science and Tactics, and he reported for duty shortly thereafter. The work of this new department embraces, in addition to the usual drill and setting up exercises, regular class instruction in military science and tactics.

The regular courses of study now offered by the College are as follows: A course in Agriculture, which is especially strong in the natural sciences and practical subjects pertaining to stock, crop production, fruit-growing, and gardening; a course in Mechanical Engineering, which gives special attention to mathematical and other engineering subjects, carrying along at the same time the practical work of the wood and iron shops; a course in Domestic Science which gives thorough training in English, in mathematics and in the natural sciences, and, in addition, prepares the young woman for future homemaking by giving her both practical and theoretical instruction in the various specialties of sewing and cooking and other things pertaining to the home; and a General Science Course which offers more advanced work in literature and the natural sciences and which gives greater opportunities for specializing on account of the large number of elective studies. Aside from these regular four-year courses, several shorter courses of a still more practical character are offered; one in Stenography and Typewriting, which embraces both English and Spanish stenography, one in Practical Mechanics, bearing more strongly on the manual training side of the work than the regular course, and making it possible for any young man to take up the work without regard to his previous preparation, and one in Agriculture, covering all of the more practical questions of stock raising, crop production, fruit growing, and truck gardening, for the entrance to which the public schools may give preparation.

Preparatory Department.

The Preparatory Department has been strengthened by raising the entrance requirements and adding a few important lines of instruction to its course. This department is now in charge of a very capable principal, who is assisted by an excellent corps of teachers. It is well equipped in all except suitable quarters, and it gives to the College classes the best prepared students that they receive.

Dormitories Needed.

With the largely increased attendance, the institution feels more and more the need of suitable dormitory accommodations for the boys. While the boarding club, under present arrangements, is of great assistance, it does not take the place of a well-managed dormitory, nor does it give as satisfactory results. The girls' dormitory has all of its rooms fully occupied, and it has been necessary to turn away a number of applicants, who failed to secure satisfactory accommodations elsewhere, and were thus deprived of the benefits of the instruction which the institution offers. An addition to this domitory large enough to double its present capacity can be constructed at comparatively small expense, since the dining room and kitchen were made large in anticipation of this increase in numbers.

Graduates.

It will be seen from the attached list that 307 students were enrolled in all departments during the year. The graduating class consisted of six members, upon five of whom was conferred the degree of Bochelor of Science, and two graduate students received the degree of Master of Science. Both of the latter now hold positions in connection with the United States Government, one in the United States Agricultural Department and the other in the Land Office. From last year's class in stenography, ten went to positions in Mexico and eight in our own Territory and adjoining states.

Improvements.

Within the year, important additions were made to the apparatus and general equipment of a number of departments. For the Domestic Science Department a sewing room was furnished with all things necessary for successful instruction. Additions were made to the tools and machinery of the shops and to the facilities for instruction in the departments of biology and chemistry. On the farm, complete equipment for making investigations in irrigation by pumping was secured, besides numerous tools and machines needed in other experimental work. An addition, 80x100 feet, was built to the corral, increasing the shed room by an area of 14x280 feet. The girls' dormitory was papered and renovated throughout during vacation and placed in excellent condition for the beginning of the year.

Buildings Needed.

The needs of the institution in the way of buildings was never greater. The failure of Congress to approve the bond issue authorized by the last Territorial legislature was a great disappointment and resulted in positive damage to the College. With the new departments of Domestic Science and Military Science and Tactics, new buildings seem imperative. The large equipment of arms and ordnance stores furnished by the War Department of the United States Government must be properly housed and cared for, since the Territory is under bond for their return, on demand, in good condition. The head of the department is in urgent need of rooms for himself and student assistants. In short, to put the Department of Military Instruction on a proper footing, it should have a well constructed armory and drill hall. The courses of study and general equipment of the institution in facilities for instruction are equal to those of similar colleges in many of the older states, and students may secure as thorough training in any lines offered. Its professors and instructors are excellently qualified and have proven themselves superior in their special lines of work. In all excepting buildings, the College ranks as first class. The library has outgrown its present quarters. The space occupied by it now is but little more than sufficient for a stack room for its books. In the shops it is found necessary to divide the students into a number of sections in order to accommodate them. The departments of Agriculture and Horticulture and Domestic Science have no quarters of their own. The professors of Agriculture and Horticulture find it necessary to take their classes from place to place, wherever a vacant period occurs in the rooms of other departments, not having the space of a single recitation room devoted to their special use. The Domestic Science Department is located in temporary rooms not at all suited to its wants a small room of the Chemical Department having been fitted up for a cooking laboratory and the stage of the Assembly Hall having been arranged for a sewing room. The work in sewing is necessarily suspended and the tables and chairs disarranged at any time that the hall is needed for general assembly or other meeting. Briefly, the needs of the institution may be enumeratd as follows: First, a building that, for the present, will serve the departments of Agriculture and Horticulture and Domestic Science and that finally may be given over to one of them. Second, an armory and gymnasium for the use of the Military Department. Third, a boys' dormitory, suitable for the accommodation of at least fifty boys. Fourth, an addition of sixteen rooms to the girls' dormitory, which would double its present capacity. Fifth, a building constructed for a library and an assembly hall, and which shall contain, in addition, the offices for the administration department. This would relieve the main building sufficiently to properly accommodate the Preparatory and Stenography departments without interference with the other departments now occupying it. In addition to the amounts needed for these buildings, the College has a deficiency debt for which it has no funds at its command This debt is due to a number of citizens of Las Cruces and professors of the College who advanced the money necessary to reimburse the Morrill Government fund for moneys used in the completion of buildings. Such a debt tends to hamper the institution, and, in justice to those who advanced the funds, it should be paid at once, the funds being secured by a special emergency appropriation.

Experiment Station.

The Experiment Station has been made much stronger by the concentration of its work in a single place. Its investigations have been carefully planned and during the year they have been energetically prosecuted. The main lines of work are of vital interest to the Territory and their successful completion will aid in its rapid development agriculturally. The main effort is now given to problems in irrigation, especially to the development of a water supply by pumping from the underflow, to the methods of redeeming alkali lands, and successfully combatting fruit pests, particularly the apple worm. Four regular bulletins, an annual report, and eighteen press bulletins were issued during the year. These are distributed regularly to over 3,000 readers. For full information relative to the work and expenditures of the Experiment Station, the reader is referred to the thirteenth annual report of the Director and other officers.

As evidence of the progress the college is making, we may call attention to the following:

1. Notwithstanding the fact that entrance requirements were raised for the present year, the attendance has been markedly increased. Six students completed the regular four years' courses, eighteen went out to positions from the stenography department, and nineteen graduated from the preparatory department. The record shows that nearly all of the graduates of the institution hold important positions and are taking active part in the progress and development of numerous industries.

2. The establishment of a course in domestic science which, in its second term, is giving instruction to 17 in cooking and 16 in sewing; the organization of a military department and the securing of a United States Army officer to take charge of it; and the authorization of the faculty to hold farmers' institutes in various sections of the territory.

3. The large increase in the number of young men, particularly natives, taking practical mechanics, making it necessary to separate them into divisions and add to the equipment in order to accommodate them.

4. The wide influence of the Experiment Station, the better appreciation of its work and the fact that it is being looked to more and more as authority on the various farm problems of the southwest.

Respectfully yours,
Luther Foster,
President of the College.

LIST OF STUDENTS.

FOR THE YEAR ENDING NOV. 30, 1902.

NOTE.—The abbreviations showing the grade of the students mean: Col., College; Col. Sp., College Special; Sten., Stenography; Sp. Sten., Spanish Stenography; Pr. Mech., Practical Mechanics: Sp. Agric., Special Agriculture; Prep., Preparatory; and Sp. Prep., Special Preparatory.

Name.	Age	Residence.		Grade.
Aldrich, Ray Kent..........	18	Gallup,	N. M.	Prep.
Alexander, Cecil............	16	Socorro,	N. M.	Sten.
Alexander, Lolita..	14	Socorro,	N. M.	Sten.
Alleman, Herbert N..........	17	Chihuahua,	Mex.	Prep.
Amador, Juliette J.	16	Las Cruces,	N. M.	Col. Sp.
Ames, Walter...............	16	Las Cruces,	"	Prep.
Angel, Apapito....	16	Mesilla,	"	Pr. Mech.
Angel, Ignacio..............	20	Mesilla,	"	Pr. Mech.
Ascarate, Nemecia..........	16	Las Cruces,	"	Prep.
Baca, Ricardo Hernandez ..	22	Chihuahua,	Mex.	Sten.
Baird, William Wallace.....	22	El Paso,	Tex.	Col. Sp.
Baker, Anna T..............	26	Troy,	N. Y.	Sten.
Baker, Stuart K....	13	Las Cruces,	N. M.	Prep.
Balizan, Estanislado........	16	Las Cruces,	"	Pr. Mech.
Banegas, Febronio.....	22	Las Cruces,	"	Sp. Prep.
Barela, Juan M..............	20	Las Cruces,	"	Pr. Mech.
Barela, Venceslao P.........	20	Hatch,	"	Sp. Prep.
Bennett, Theron C.......	21	Pierce City,	Mo.	Col.
Berdugo, Juan	15	Mesilla,	N. M.	Pr. Mech.
Bevans, Henry..............	29	Mesilla Park,	"	Col. Sp.
Blinn, Mary.................	16	Kelly,	"	Col.
Blinn, Merle A..............	16	Woodbury,	"	Col.
Bloodgood, Clyde A..... ..	14	Kingston,	"	Prep.
Bloodgood, Dean W. A......	18	Kingston,	"	Pr. Mech.
Bloom, Lansing B..........	22	Auburn,	N. Y.	Sten.
Bouts, John W..............	21	Topeka,	Kas.	Col.
Bragg, Lucy L	18	Mesilla Park,	N. M.	Sten.
Brown, Archie....	18	Gallup,	"	Col.
Brown, Ulysses...	20	Gallup,	"	Col.
Brunner, George............	18	El Paso,	Tex.	Col. Sp.
Burke, Edna.......	14	Mesilla Park,	N. M.	Prep.
Caden, Arthur B............	31	New York City,		Sten.
Cadwallader, Edgar.........	22	Highrolls,	N. M.	Prep.
Calderon, Jose..............	19	Chihuahua,	Mex.	Sten.
Calderon, Jr., Rafael........	21	Chihuahua,	Mex.	Sten.
Caldwell, George R....	18	Mesilla,	N. M.	Prep.
Carrera, Emile P....	17	Las Cruces,	"	Prep.
Carrera, Theodolinda........	18	Las Cruces,	"	Prep.
Case, Clarence D....	29	Attica,	Ind.	Sp. Agric.
Case, Lauren W.............	25	Attica,	Ind.	Col.
Chavez, Abraham............	18	Monticello,	N. M.	Prep.
Chavez, Eduardo	20	Monticello,	"	Sp. Prep.

LIST OF STUDENTS—Continued.

Nov. 30, 1902.

Name.	Age	Residence.	Grade.
Chavez y Castillo, M	16	Belen, N. M.	Sp. Prep.
Chavez y Castillo, J	14	Belen, "	Sp. Prep.
Chipman, Irene	17	Alamogordo, "	Sten.
Clancy, Carlos C	17	Puerto de Luna, "	Sten.
Clark, Ethel	16	Richardson, "	Prep.
Coleman, Daniel R	14	Mesilla Park, "	Prep.
Coleman, Elizabeth	21	Mesilla Park, "	Col.
Coleman, Ruth	19	Mesilla Park, "	Col.
Connolly, Robert E	18	Deming, "	Pr. Mech.
Cook, Talley B	18	Deming, "	Prep.
Cook, Thomas E	18	Lordsburg, "	Pr. Mech.
Crocker, Allen C	32	Leominister, Mass.	Sten.
Crosby, William	17	El Paso, Tex.	Col. Sp.
Danburg, Walter M.	22	Las Cruces, N. M.	Sten.
Davis, Edward B	24	Boston, Mass.	Col. Sp.
Davis, Laura L	21	Herndon, Va.	Sten.
Deemer, Dixon F	13	Mesilla Park, N. M.	Prep.
Deemer, Phyllis B	17	Mesilla Park, "	Col. Sp.
Deemer, Ralph B	17	Mesilla Park, "	Col. Sp.
Dennis, Florence E	41	Chicago, Ill.	Sp. Sten.
Dessauer, Numa R	12	Las Cruces, N. M.	Prep.
Dessauer, Phillip E	15	Las Cruces, "	Prep.
Disinger, George H	15	Hillsboro, N. M.	Pr. Mech.
Duriez, Leo	13	Las Cruces. "	Prep.
Durling, Nethie	13	East Las Vegas, "	Prep.
Eldridge, Elizabeth	19	Gallup, "	Col. Sp.
Elliott, Richard H	14	Cambray "	Prep.
Endicott, William	15	Lake Valley, "	Pr. Mech.
Evans, Flora L	18	El Paso, Tex.	Prep.
Evrist, Charles E	23	Los Angeles, Cal.	Sp. Sten.
Exter, Simeon	14	Rosedale, N. M.	Prep.
Fielder, Herbert A	19	Silver City, "	Pr. Mech.
Finney, Ray A	17	San Marcial, "	Prep.
Flint, Henry Phillips	21	Otero County, "	Sp. Sten.
Flint, Nigel C	19	Las Cruces, "	Sten.
Ford, Alice Bessie	14	Las Cruces, "	Prep.
Ford, Annis B	17	Las Cruces "	Col.
Ford, Fannie	20	Las Cruces, "	Col.
Ford, Lela Ray	16	Las Cruces, "	Prep.
Foster, Doris	13	Las Cruces, N M.	Prep.
Foster, Elizabeth	21	Las Cruces, "	Col.
Foster, Ethel	18	Las Cruces, "	Prep.
Foster, Flossie	20	Las Cruces, "	Col. Sp.
Foster, Lute	16	Las Cruces, "	Col.
Fountain, Catherine M.	18	Mesilla, "	Sp. Sten.
Fraide, Agnes	18	Clifton, Ariz.	Prep.
Fraide, Berardo	25	Las Cruces, N. M.	Prep.

LIST OF STUDENTS—Continued.

Nov. 30, 1902.

Name.	Age.	Residence.	Grade.
Fraker, Arthur	17	Ocate, N. M.	Prep.
Frederickson, Estrid	17	Albuquerque, "	Sten.
Freeman, Annie May	19	Antnony, "	Col. Sp.
Freeman, John J	17	Anthony, "	Prep.
Fountain, Jr., A. J	17	Mesilla, "	Prep.
French, Frances	22	Las Cruces, "	Col.
Galles, Georgia	17	Las Cruces, "	Col.
Gamboa, Alfred	15	Mesilla, "	Prep.
Gamboa, George	22	Mesilla, "	Col. Sp.
Garrett, D. Poe	19	El Paso, Tex.	Prep.
Garza, Francisco	16	Marathon, Tex.	Prep.
Geck, William J	17	Anthony, N. M.	Prep.
Gilliam, Rexie E.	18	Mesilla Park, "	Prep.
Gillmore, Matt	20	Alto, "	Pr. Mech.
Given, Guy C	15	Hillsboro, "	Col. Sp.
Goebel, Walter E	19	Belen, "	Pr. Mech.
Goebel, William C	14	Belen, "	Prep.
Gonzales, Alejandro	19	Mapimi, Durango, Mex	Pr. Mech.
Gonzales, Merced	17	Las Cruces, N. M.	Sr. Prep.
Gonzales, Jesus	18	Mesilla Park, "	Pr. Mech.
Gonzales, Vidal	19	Las Cruces, "	Pr. Mech.
Goodin, Frank	19	White Oaks, "	Pr. Mech.
Graham, Allen G.	14	Las Cruces, "	Prep.
Graham, Earl A	17	Las Cruces, "	Col.
Green, Edward E	17	Bisbee, Ariz.	Sp. Prep.
Griffin, John B	19	Carlsbad, N. M.	Sten.
Grijalba, Marcos	25	Arroyo Bonito, "	Pr. Mech.
Guerra, Juan	15	Mesilla, "	Prep.
Guerra, Jose C	14	Mesilla, "	Prep.
Hallock, Kathyrn	16	Las Cruces, "	Prep.
Hamilton, Richard	18	White Oaks, "	Sten.
Hammond, Laura Virginia	16	Gap Creek, Tenn.	Prep.
Harney, Anneta May	17	Cerrillos, N. M	Col.
Harper, Dora	17	Clifton, Ariz.	Prep.
Hart, Gustavus E	37	San Francisco, Cal.	Sp. Sten.
Hart, R. H	19	El Paso, Tex.	Col.
Hatton, Thurman T	14	Las Cruces, N. M.	Prep.
Haworth, Lauren	16	Bangor, Iowa	Prep.
Herrera, Louis.	18	Las Cruces, N. M.	Prep.
Herrera, Ramon	15	Las Cruces. "	Pr. Mech.
Hitchcock, James E	15	San Marcial, "	Pr. Mech.
Hodgson, Mary E	19	Deming, "	Col. Sp.
Horton, Geo. A	23	Auburn, N. Y.	Sp. Sten.
Hostetter, Cecil	15	Las Cruces, N. M.	Prep.
Hostetter, Hazel	14	Las Cruces, "	Prep.
Howard, Geo. Volney	22	Santa Fe, "	Sp. Sten.
Howell, Edith Lucy	15	Santa Rita, "	Sp. Sten.

LIST OF STUDENTS—Continued.

Nov. 30, 1902.

Name.	Age	Residence.		Grade.
Hubbard, Eda Luzetta	18	Marfa,	Tex.	Sten.
Hubbard, Harry J	20	Marfa,	“	Col.
Hughes, Adelaide M	19	Washington,	D. C.	Sten.
Hughes, John D	19	Albuquerque,	N. M.	Col.
Huse, Sidney C	26	Comanche,	Tex.	Sten.
Isaacks, Coila	17	Las Cruces,	N. M.	Prep.
Isaacks, Emmitt	14	Las Cruces,	“	Prep.
Isaacks, William F	18	Las Cruces,	“	Prep.
Jacoby, Clara	23	Las Cruces,	“	Col. Sp.
Jacoby, Lydia	21	Las Cruces,	“	Col. Sp.
Jacquot, Walter	17	Springer,	“	Pr. Mech.
Jaramillo, Abel	22	Belen,	“	Sp. Prep.
Jaramillo, Manuel R	17	Monticello,	“	Sp. Prep.
Jennings, Harry L	28	Lordsburg,	“	Pr. Mech.
Jewett, C. W	34	Lawrence,	Kas.	Col. Sp.
Johnson, Jean R	22	Mesilla Park,	N. M.	Sp. Sten.
Kaune, Alice A	18	Santa Fe,	“	Prep.
Kimber, Fleta	15	Mesilla Park,	“	Prep.
Lane, John H	23	White Oaks,	“	Col. Sp.
Lapoint, Wm	17	Las Cruces,	“	Col. Sp.
Lara, Jesus	20	Las Cruces,	“	Sp. Prep.
Larrazolo, John B.	19	Las Vegas	“	Col.
Lewis, Florence	15	Gallup,	“	Prep.
Llewellyn, Gladys	18	Las Cruces,	“	Prep.
Llewellyn, Ida M	17	Las Cruces,	“	Prep.
Llewellyn, Jr., W. H. H.	15	Las Cruces,	“	Prep.
Lockwood, Kent	16	Lake Valley,	“	Prep.
Loundabacio, Bonicio	16	Magdalena,	“	Prep.
Lowe, Lawson David	18	Las Cruces,	“	Sp. Sten.
Lucero, Francisco	15	Las Cruces,	“	Prep.
Lucero, Juan	20	Las Cruces,	“	Pr. Mech.
Lucero, Miguel	18	Mesilla,	“	Prep.
Luna, Carlota	19	Las Cruces,	“	Prep.
Luna, Julian F	22	Lemitar,	“	Pr. Mech.
MacGregor, James S	20	Mesilla Park,	“	Col.
McIver, Ivander	11	Mesilla Park,	“	Prep.
Mackedon, Edward J	17	San Pedro,	“	Prep.
Malone, French	14	Mesilla Park,	“	Prep.
Malone, James	13	Mesilla Park,	“	Prep.
Mandell, Bertha	12	Mesilla Park,	“	Prep.
March, D. C.	53	Missouri,		Col. Sp.
Mayo, Glover	18	Golden.	“	Pr. Mech.
Medina, Joaquin	16	Clifton,	Ariz.	Sp. Prep.
Medina, Juan	12	Clifton,	“	Sp. Prep.
Medina, Ralph	14	Clifton,	“	Sp. Prep.
Mejia, Albino	20	Solomonville,	“	Sp. Sten.
Mestas, Solomon A	22	Clayton,	N M.	Col. Sp.
Metcalfe, Mary Thomas	41	Mangus Springs,	“	Col. Sp.

LIST OF STUDENTS—Continued.

Nov. 30, 1902.

Name.	Age	Residence.	Grade.
Metcalfe, Orrick B.	23	Mangus Springs, N. M.	Col.
Metcalfe. Robert J.	26	Organ, "	Col.
Miller, Bernard	19	Mangus Springs, "	Pr. Mech.
Miller, Edwin W.	12	Santa Fé, "	Prep.
Miller, John G.	17	Cliff, "	Col. Sp.
Miller, Walter L.	19	Santa Fé, "	Pr. Mech.
Molina, Maximiliano	21	Las Cruces, N. M.	Pr. Mech.
Mordy, Isabelle	20	Las Cruces, "	Col.
Mordy, Jessie L.	14	Las Cruces, "	Prep.
Morrison, Robert L	14	Prescott, Ariz.	Prep.
Moseley, Alexander J.	21	Union Springs, Ala.	Sten.
Mott, Rowena	18	Las Cruces, N. M.	Col.
Myers, Sarah	19	Albuquerque, "	Sten.
McConnell, Harry C.	15	Toronto, Canada	Prep.
McFie, Mary	13	Santa Fé, N. M.	Prep.
McFie, Maude E.	22	Santa Fé, "	Col.
Nabours, Benjamin	20	White Oaks, "	Col.
Nabours, Bessie L.	17	White Oaks, "	Prep.
Nabours, Florence.	13	White Oaks, "	Prep.
Nabours, Myrtle V.	15	White Oaks, "	Prep.
Nattress, Chas. H.	18	San Marcial, "	Pr. Mech.
Neal, Homer H.	18	Mesilla Park, "	Col. Sp.
Nelson, Ina M.	19	Lake Valley. "	Col.
Nevares, Jesus F.	19	Las Cruces, "	Prep.
Nevares, Manuel	20	Las Cruces, "	Sp. Prep.
Newcomb, Alice	14	Las Cruces, "	Prep.
Newcomb, Bessie S.	16	Las Cruces, "	Col. Sp.
Newcomb, Jr., Chas.	23	Holyoke, Mass.	Col. Sp.
Newberry, H. Clay	18	Mesilla Park, N. M.	Col.
Newlin, Roy	22	Bloomingdale, Ind.	Col. Sp.
Newton, Nellie	22	Mesilla Park, N. M.	Sp. Sten.
Newton, Fred N.	18	Mesilla Park, "	Prep.
Nuanez, Ygnacio	20	Monticello, "	Sp. Prep.
Nunn, James	14	Tierra Blanca, "	Prep.
Olinger, Robert W.	17	Mesilla Park, "	Sten.
Opgenorth, Henry	16	Hillsboro, "	Prep.
Ornetas, Efren	18	Chihuahua, Mex.	Col.
Orr, Blanche	17	Hanover, N. M.	Sten.
Padilla, Eugenio	16	Las Cruces, "	Pr. Mech.
Payne, Chester	18	El Paso, Tex.	Prep.
Parks, Harry L.	19	Lake Valley, N. M.	Pr. Mech.
Pearson, Trust	16	Lordsburg, "	Sp. Prep.
Pelphrey, Wm.	21	Alamogordo, "	Sp. Prep.
Peña, Rafael	16	Las Cruces, "	Pr. Mech.
Piñones, Gabriel	17	Mesilla, "	Prep.
Piper, Edward G.	23	El Paso, Tex.	Col. Sp.
Pisaña, Concepción	19	Mesilla, N. M.	Pr. Mech.
Poe, Archie E.	17	Mesilla Park. "	Prep.

LIST OF STUDENTS—Continued.

Nov. 30, 1902,

Name.	Age	Residence.	Grade.
Poe, James R.	17	Mesilla Park, N. M.	Prep.
Priest, John E.	24	Rincon, "	Pr. Mech.
Quesenberry, Elizabeth	14	Las Cruces, "	Prep.
Quintero, Jose	18	Mesilla, "	Col. Sp.
Quintero, Fernando	16	Mesilla, "	Prep.
Quiroz, Bonifacio	15	Chihuahua, Mex.	Sp. Prep.
Raff, John B.	18	Los Lunas, N. M.	Pr. Mech.
Ramirez, Juan	18	Las Cruces, "	Prep.
Ramirez, Rafael	20	Las Cruces, "	Col.
Randall, Claude	18	Deming, "	Pr. Mech.
Randolph, John	18	Jennings, La.	Pr Mech.
Redding, Edward	16	Grafton, N. M.	Prep.
Redding, Vivian	13	Grafton, "	Prep.
Rederich, J. E.	32	Kansas,	Sp. Agri.
Reza, Adolfo	17	Las Cruces, "	Sten.
Rigney, Alma	17	Belen, "	Col.
Roberts, Guy M.	18	Trenton, Mo.	Prep.
Romero, Carlos	14	Chihuahua, Mex.	Prep.
Rouault, Ernest J.	18	Las Cruces, N. M.	Prep.
Rouault, Jr., Theodore	21	Las Cruces, "	Pr. Mech.
Salcido, Pablo	16	Clifton, Ariz.	Sp. Prep.
Salmon, Frances	18	San Antonio, Tex.	Prep.
Sampson, Irving	17	Las Cruces, N. M.	Prep.
Sanchez, Alfredo M.	22	Mesilla, "	P. G. Col.
Sanchez, Demetrio	18	Tome, "	Sp. Prep.
Sanchez, Salvador	21	Monticello, "	Sp. Prep.
Sarabia, Carlos	18	Las Cruces, "	Pr. Mech.
Saucedo, Jose M.	20	Las Cruces, "	Prep.
Scoggins, Beulah	19	Mesilla Park, "	Sp. Prep.
Scoggins, Clifford O.	16	Mesilla Park, "	Prep.
Sells, George B.	15	Las Cruces, "	Prep.
Serna, Patricia	15	Mesilla, "	Pr. Mech.
Serna, Pedro	17	Las Cruces, "	Pr. Mech.
Shaw, Maymie E.	18	San Marcial, "	Col.
Shaw, Rena	16	San Marcial, "	Prep.
Skidmore, Frank L.	15	Las Cruces, "	Prep.
Soto, Carlos	19	Las Cruces, "	Pr. Mech.
Smith, David Fray	22	Nogal, "	Prep.
Snow, Robert Carl	20	Tiptonville, Tenn.	Col.
Stanley, Alice	28	Lansing, Mich.	Sp. Stan.
Steer, James A.	14	Las Cruces, N. M.	Prep.
Steel, Matthew	22	Las Cruces, N. M.	P. G. Col.
Steiger, Ralph	20	Holyoke, Mass.	Sp. Agric.
Stewart, Herbert C.	15	Mesilla Park, "	Prep.
Stewart Rupert	12	Mesilla Park, "	Prep.
Stinnett, Russell T.	28	Bells, Va.	Col.
Stivers, Jos. W.	18	Raton, N. M.	Col. Sp.
Stoneking, Jay B.	15	Kelly, N. M.	Prep.

LIST OF STUDENTS—Continued.

Nov. 30, 1902.

Name.	Age.	Residence.		Grade.
Sweet, Jacob B	16	Las Cruces,	N. M.	Prep.
Swing, S. Walter	29	Coatsville,	Pa.	Col. Sp.
Taliaferro, Richard	16	White Oaks,	N. M.	Prep.
Torres, Donaciano	17	Las Cruces,	“	Prep.
Trujillo, Candido	16	Mesilla,	“	Prep.
Trujillo, Miguel	18	Las Cruces,	“	Prep.
Uranga, Armando	17	Las Cruces,	“	Pr. Mech.
Uranga, Benigno	14	Las Cruces,	“	Sp. Prep.
Valdez, Louis D	24	Las Cruces,	“	Sten.
Varela, Miguel M	21	Chihuahua,	Mex.	Col. Sp.
Waddell, Harry	12	Las Cruces,	N. M.	Prep.
Waddell, Otto	14	Las Cruces,	“	Prep.
Wade, Edward	15	Las Cruces,	“	Prep.
Wade, Wilson	12	Las Cruces,	“	Prep.
Walker, Alvah	17	Denton,	Tex.	Prep.
Wallace, Miriam L	18	Cloudcroft,	N. M.	Sten.
Warren, A. J	38	Albuquerque,	“	Col.
Watkins, Lida O	19	Deming,	“	Sten.
Weaver, Elmore Allen	19	Deming,	“	Pr. Mech.
Weinman, Walter	17	Albuquerque,	“	Sten.
Welch, Mrs. Della May	26	Santa Rita,	“	Prep.
Wharton, Florence	20	White Oaks,	“	Col. Sp.
Wylie, Frederick T	28	Las Cruces,	“	Col. Sp.
Yoast, Irvin H	18	Las Cruces,	“	Prep.
Yoast, Mamie E	15	Las Cruces,	“	Prep.
Yonge, Roy	12	El Paso,	Tex.	Prep.
Young, Donald W	13	Las Cruces,	N. M.	Prep.

DEPARTMENT OF MATHEMATICS AND ASTRONOMY.

President Luther Foster.

Sir: The following is a brief report from the Department of Mathematics and Astronomy covering the period November 30, 1901, to November 30, 1902, showing the amount of apparatus, etc., belonging to the department, the classes which I taught, the number of students in each class, the rank of each subject, and number of recitations per week:

Winter Term, 1901-2.

Algebra, Senior Preparatory, 20 students, 5 recitations per week.

Geometry, Freshman, 12 students, 5 recitations per week.

Calculus, Junior, 1 student, 5 recitations per week.

Astronomy, Junior and Senior, 10 students, 6 recitations per week.

Spring Term, 1902.

Algebra, Senior Preparatory, 18 students, 5 recitations per week.

Geometry, Freshman, 14 students, 5 recitations per week.

Higher Algebra, Sophomore, 2 students, 5 recitations per week.

Conic Sections, Sophomore, 2 students, 2 recitations per week.

Astronomy, Junior and Senior, 8 students, 1 recitation per week.

Calculus, Junior, 1 student, 5 recitations per week.

Fall Term, 1902.

Algebra, Senior Preparatory, 15 students, 5 recitations per week.

Geometry, Freshman, 17 students, 5 recitations per week.

Trigonometry, Sophomore, 7 students, 5 recitations per week.

Astronomy, Junior, 3 students, 6 recitations per week.

Analytic Geometry, Junior, 1 student, 5 recitations per week.

The work of the students during the above three terms was quite satisfactory. During the present winter term, my classes of the preceding term continue, except that instead of trigonometry the class takes surveying, and instead of analytic geometry the class takes calculus.

While the quarters of this department are not as commodious as I would like to have them, still I am very well satisfied.

Equipment.

The department is fairly well equipped for work in surveying as well as mathematics and astronomy. It has a portable equatorial telescope with 4 1-2 inch objective and magnifying powers ranging from 50 to 400, planetarium, star lantern with slides, star atlasses, and planisphere; a 24 inch slated globe, trigonometer and Kennedy's dissected geometrical blocks; a surveyor's compass, two transits, one of which has a gradienter and solar attachment; engineer's level, plane table, protractors, aneroid barometer, optical square, planimeter, pantograph, hand level, and clinometer, chains, tapes, leveling rods, poles, pins, etc.

The department library contains many valuable books of reference. Several periodicals are also taken for the department.

Respectfully submitted,

C. T. Hagerty.

DEPARTMENT OF CHEMISTRY.

President Luther Foster.

Sir: In compliance with your request for a brief statement concerning the work of the chemical department of this institution during the year ending November 30, 1902, I respectfully submit the following:

During the year covered by this report, the work in the department has been the most satisfactory in the history of the institution. A larger number of students have been enrolled than in any past year, and the grade of the work has been fully maintained in all subjects and materially advanced in some. In all, 65 separate students received instruction in the department within the year. As no chemical work is given in the preparatory department proper, or in most of the special departments such as stenography, the short courses in mechanics, etc., it is thought that the above is quite a satisfactory showing.

It is to be remembered, also, that the instruction of students is only one part of the work done in the chemical department. We also have the chemical work in connection with the agricultural experiment station to look after. In the station work, investigations concerning the composition of waters, plants, alkali, stock foods and other subjects of vital interest to the farmers of the territory are being carried on, but it is not my intention to go into details concerning this phase of the work at present, as this report is intended to cover only the college work proper.

In the college, all regular students receive instruction in chemistry, first in the Senior Preparatory year and later during the Junior year. If students choose to take advanced work they also have the privilege of continuing the subject during the Senior year.

The work in the Senior Preparatory year is designed to serve as an introduction to the advanced work in chemistry and to give the student the fundamental knowledge necessary to a clear understanding of other branches of science taught later. It also serves the purpose of giving such students as are unable to take a full college course some idea of the subject of chemistry.

The work during the first half of the Junior year consists of a study of the principles of the science as outlined in a standard text. During the latter part of the Junior year, the students work in the laboratory, each being given a complete set of chemicals and apparatus in the use of which he receives instruction. Upon completing this work, the student is expected to be able to determine the composition of any ordinary inorganic substance.

If students continue the work in the chemical department during the Senior year, they are allowed to choose the kind of work best suited to their purpose. Thus, students in agriculture select work concerning the composition of soils, waters, farm crops, animals, feeding-stuffs and other subjects of a similar character, while students desiring to follow mining or metallurgical work are given work along those lines.

Besides the work in chemistry given to regular college students, a short course in assaying and related subjects is carried to meet the demand of this class of instruction. The time required for the completion of this course is one year. The subjects taught include assaying both by dry and wet methods, mineralogy, geology and metallurgy. It is the aim of this course to familiarize the students with the properties, mode of occurrence, and method of determining the more important ores and minerals, and to instruct them in the best methods of assaying ores of gold, silver, lead, copper, etc. This branch of the work has a very decided practical bearing. A number of young men after having compleled this course, have been able to secure very desirable positions in mining and metallurgical work both in the U. S. and Mexico. The demand for competent men in these lines has, in fact, been considerably greater than we could supply.

The work in chemistry and assaying is intended not only to train the minds of students, but also to give them information which they may use to advantage in a great many different occupations. The relations between chemistry and agriculture, mining, various lines of manufacturing, and even the preparation of food and other household operations are so intimate that it is impossible to reach the highest success in any of these lines without some knowledge of chemistry. There is probably no other science so fundamental and far reaching in its relations and consequently, there is probably no other science a knowledge of which offers more to the student.

Our facilities for teaching chemistry are very complete. This institution now possesses one of the best equipped chemical laboratories in the Southwest. The equipment is modern and first-class in every particular. We have no old and out of date apparatus as is the case in many of the older institutions. With the superior facilities we have for teaching chemistry and the allied subjects carried in the department, there is no reason why students should leave the territory to secure this class of instruction, and it is worthy of note that a constantly increasing number are availing themselves of the opportunities offered.

The equipment of the department is being continually added to as fast as the funds available will permit. The Government furnishes funds for the purchase of apparatus, chemicals and other supplies for teaching, and of these we have always had quite a liberal amount. As the government funds cannot be used for buildings and permanent improvements, our principal trouble in the past has been to secure funds for such purposes. We have, however, been able to add permanent fittings in the department from time to time as funds could be secured, until now the chemical department is not so very badly off even in this particular. We are very much better fixed in this respect than many other departments of the institution. During the past year we were able to add a much needed case for storage purposes and the preservation of specimens, and also a new work desk and a few other minor improvements, from funds derived from the assay of ores and analytical work done in the department.

For a number of years this department, as is the case at present with most other departments of the institution, was very much crowded for room. When the new Science Hall was built, however, out of the proceeds of a very much needed and very thankfully received appropriation by the territorial legislature, the chemical department was moved into new quarters and is consequently not so crowded at present as many of the other departments of the institution, where conditions are almost unbearable. If the legislature would continue the good work and appropriate sufficient funds for the relief of some of the other over-crowded departments it would add very materially to the work of the institution. Very respectfully submitted,

Arthur Goss,
Professor of Chemistry.

DEPARTMENT OF HISTORY AND PHILOSOPHY.

President Luther Foster.

Sir: Unfortunately, the term "Philosophy," in the title above, is more pretentious than is justified by the scope of the work attempted. Under the head, "History," is embraced the required subjects of Ancient, Mediæval, and Modern History, and History of Civilization; and the electives, English History and History of Education. Under the head, "Philosophy," the college attempts only an introduction to Psychology and the application of the principles of this science to the art of teaching, and, when called for, to the study of logic.

The past year has been satisfactorily successful. The classes in the subjects named have been larger than they were during the previous year; the interest has steadily increased; and pupils have manifested a higher appreciation of the benefits received.

This department has to contend constantly with one serious difficulty. By a strict interpretation of the language of the Congressional Acts endowing this and similar colleges, the expenses of this department cannot be paid from the national appropriation. The highest authorities on educational values usually give history the first place. Students who get our limited courses in psychology uniformly regret that they cannot have more and have it earlier in the course. From the cause named, this institution is compelled to limit its work to the minimum portions necessary to a reasonably complete elementary education.

The demand and the need for an enlargement of the work of this department, especially in what is called normal instruction, is very pressing, and it is hoped that the legislature, when making appropriations, will give this matter liberal consideration.

Respectfully yours,

Hiram Hadley,
Professor of History and Philosophy.

DEPARTMENT OF BIOLOGY AND GEOLOGY.

President Luther Foster.

Sir: I have the honor to make the following report of the work done in my department during the year ending November 30, 1902.

Classes in the following subjects were taught by me during that time: Biology, throughout the year; Physics, two-thirds of the year; Advanced Physics, two-thirds of the year; Mineralogy, Geology and Ornithology, one-third of the year each; and Advanced Botany throughout the year. The Biology, Mineralogy, Geology and Physics were the regular required undergraduate work in these subjects, which are discussed more or less at length in our catalog. The advanced Physics and Botany and the Ornithology were elective work in these subjects, particularly adapted to the desires of the students. The work embraced classes of freshmen, sophomores, seniors, and graduate students.

During the year some considerable additions were made to the equipment of the department, in the shape of preserved zoological and botanical material for class and demonstration purposes, some little laboratory apparatus, some valuable microscopic sections, some botanical publications which are valuable to our departmental library, and some cases for our herbarium. During the summer vacation, the herbarium was thoroughly overhauled, old material remounted, considerable new material added, and the whole herbarium rearranged by the most approved system of classification.

The head of the department was in the field two weeks in August for the Bureau of Forestry, U. S. D. A., in which time photographs and specimens of, and data concerning the distribution of some of our more important native plants were obtained.

This department is beginning to need museum and case room quite badly. Valuable specimens must now be kept in such a way as to be of relatively little value, and in a condition not good for the specimens themselves, for want of better accommodations.

Yours truly,

E. O. Wooton,

Professor of Biology and Geology.

DEPARTMENT OF STENOGRAPHY AND TYPEWRITING.

President Luther Foster.

Sir: The past year has been a successful one in the work carried on in the Department of Stenography and Typewriting. The enrollment of students has been greater than in any former year, numbering 25. That those students were of a mature class is shown by the fact that the average age was 22½ years. The students enrolled came from twelve different states or countries, many of them coming to this institution especially to train as stenographers in Spanish as an additional qualification to their already acquired ability as stenographers in English. All the competent students completing the year's work secured positions readily, a number going to Mexico, one to Porto Rico, and others to various points.

When English stenographers holding good positions see fit to resign them and come here to take the work we offer in English-Spanish stenography, leaving when competent to accept better positions than those they resigned, it is evident that the work we offer in this direction is of value to such persons. This work is attracting greater attention each year and it would appear to be one of those special lines of work taken up by this college which if properly brought to the attention of stenographers throughout the country would attract a much larger enrollment than it at present does.

The equipment of the department was materially added to by the purchase of additional typewriters, etc., made necessary by by the increased enrollment. The present equipment of typewriters consists of 14 Remingtons, one Smith-Premier and one Oliver.

The work in typewriting during the year has been under the management of my assistant, Mr. John O. Miller, whose efficient instruction I am pleased to acknowledge. The year's work was well illustrated by an excellent permanent display of students' work done by the typewriting students, which remains in the college. A number of students in the institution, additional to the regular stenography students, took work in typewriting.

Respectfully submitted,
FRANCIS E. LESTER,
Principal Department of Stenography and Typewriting.

DEPARTMENT OF SOILS AND PHYSICS.

President Luther Foster.

SIR: I beg leave to submit the following report on the work done in the departments under my charge from December 1, 1901, to November 30, 1902.

From December 1, 1901 to June 30, 1902, my time was devoted mainly to Experimental Station investigations. There was one etudent, Mr. A. M. Sanchez, taking major graduate work in soils, and to whom I also gave instruction in plant physiology, as a minor. Mr. Sanchez completed the required class work in these subjects, but before he could complete the necessary thesis he left to take a position in the Bureau of Soils of the U. S. Dept. of Agriculture.

As a matter of accommodation to the professor in charge, I taught the term's work in human physiology.

On July 1, 1902, the work in physics was placed under my charge, forming the Department of Soils and Physics. The physics class at present has six students.

The soils laboratory is very well equipped for the prosecution of the Experiment Station work, and students, of course, have access to this equipment.

The physics laboratory is equipped with the necessary cases for the storage of apparatus, wall desks, lecture desk, and dark room. The equipment in apparatus is, however, considerably below that of most other departments of the institution, and I earnestly recommend that the equipment be considerably enlarged as soon as funds can be made available for this purpose.

Respectfully submitted,
J. D. Tinsley,
Professor of Physics.

DEPARTMENT OF DOMESTIC SCIENCE.

President Luther Foster.

Sir: I submit the following brief report of the Department of Domestic Science and the Dormitory for the year ending November 30, 1902.

Notwithstanding the fact that the department is new, there have been twenty-nine (29) students enrolled during the year, classified as follows: Sub-freshmen, sixteen (16); juniors, six (6); seniors, seven (7). Of this number three have entered as special students, for the purpose of getting some knowledge of cooking and sewing.

Classes taught were as follows: Sub-freshman, Cookery; Junior, Advanced and Invalid Cookery; Senior, Dietetics, Home Sanitation, Chemistry of Cooking and Cleaning and Chafing-dish Cookery.

Twenty-six young women were enrolled and three young men entered for chafing-dish cookery.

At the March meeting of the Board of Regents, an independent course in Domestic Science was established, including both cooking and sewing. An assistant in the department was appointed, who takes charge of the classes in sewing, for which purpose a room has been fully equipped with sewing machines, tables, charts and all of the necessary conveniences for the work, and the classes are crowded. The outlook for the future in both divisions of the department is encouraging.

The Dormitory has been overcrowded, so that students were obliged to be turned away for lack of room during the year. The building has been papered and renovated throughout and much improved. Additional room will be absolutely imperative in the near future to meet the demands of students for accommodation.

Alice Horning,
Professor of Domestic Science and Matron of Women's Hall.

DEPARTMENT OF AGRICULTURE AND HORTICULTURE.

President Luther Foster.

Sir: I have the honor to submit the following report of the Department of Agriculture and Horticulture.

The Department of Agriculture and Horticulture has made substantial progress in the last year, and it is believed to be on the eve of a very promising future. Its field of usefulness is broadening. The purpose and scope of the work is more fully appreciated, and the value of an agricultural education is finding greater favor among young men.

The course of study in Agriculture which includes the principles of agriculture, irrigation, animal husbandry, dairying, horticulture, and soils has been greatly strengthened and broadened. Agricultural studies are now required in every year of the course together with the scientific and cultural studies. A number of studies have been added to the course, namely, the study of breeds of live stock, grenhouse construction and management, greenhouse handicraft, olericulture, economic entomology, landscape gardening, forestry required, bacteriology, plant physiology, additional practical agriculture, additional studies in feeding, and additional agricultural chemistry, at the same time keeping the course strong in the industrial sciences.

Equipment.

The equipment and facilities for instruction have been greatly improved.

Practical Agriculture.—It has been the purpose of the head of the department to establish and maintain a complete equipment of farm machinery for instruction purposes, as well as for use upon the farm, thus affording the students opportunity for a broad view of this important phase of agriculture, the use and benefits of labor-saving machinery. The purpose in mind, is not only to familiarize students with machinery adapted to New Mexican agriculture, but so far as practicable to give them a working knowledge of machinery used in other sections of the country, and by this means fit them for efficient service should they be called into new fields. The equipment in this line consists of plows, harrows, discs, cultivators, graders, bordering machine, grain grader and cleaner, seeders, harvesters, thresher, a small gasoline engine, feed grinder, hay and fodder cutter and shredder, etc.

The farm and station fields and plots afford opportunity for illustrating the principles of cultivation and farm management. Experiments conducted by the Agricultural Experiment Station with alfalfa, grains, grasses, soils, etc., form valuable aids to the instruction in soils and field crops.

Animal Husbandry.—Three breeds of cattle are represented in the college herd together with a number of grades. The management of the herd includes the rearing of young stock and thus the principles of breeding, care and management of cattle may be illustrated. The experiments conducted by the Station in feeding for beef and for the production of milk and butter furnish an avenue for the study of systems of feeding, compounding and balancing rations, computing rations, etc., as well as for practical training in judging class types.

Horticulture.—Two large orchards comprising many varieties of apples, peaches, pears, plums, apricots, cherries, and quince are available for the study of such topics as kinds and varieties of fruits adapted to this section, how to pick, grade, pack, and ship fruit, and general orchard management. The vineyards are ample for the illustration of viticultural subjects. A plantation of small fruits and a small nursery are maintained partially for instruction purposes.

The nursery and orchards afford opportunity for practical lessons in pruning, grafting, budding, top-working, methods of propagating, and general nursery management.

The vegetable gardens, hot-beds, and cold frames are handled with a view to the study of commercial vegetable growing, special attention being given to winter vegetables.

The greenhouse is an important factor in the illustration of various phases of plant life. It is particularly serviceable in illustrating methods of producing cut flowers and for growing plants and flowers for bedding purposes and ornamentation.

The arboretum, forestry plantations, shelter belts, public grounds, and lawns are serviceable for illustrating the study of forestry, shelter belts, landscape gardening, and methods and means for beautifying home surroundings.

Irrigation.—As would be expected in an arid region where plant growth is almost entirely dependent upon artificial means of supplying water, irrigation forms one of the important branches of agricultural instruction. Besides the ditches and reservoir on the college farm, which furnish means for illustrating methods and systems of irrigating farm crops, orchards, vineyards, vegetables, etc., a successful pumping plant has been installed. This plant is capable of supplying a good irrigation head, about 1,000 gallons per minute. Both steam and combustion engines are used for power.

Students may now study methods of supplementing the river flow, effect of well water upon the soil and upon crops, and methods and machinery for irrigation from the underflow.

Students.

The number of students that have received instruction in the Department of Agriculture and Horticulture this year is given below. For the purpose of comparison, the two preceding years are also given.

Year	Number taking regular four y'r course in agriculture.	Number taking a full course in agriculture.	Number taking special studies.	Total
1900-1	0	0	0	0
1901-2	1	4	0	4
1902-3	3	6	15	21

Needs.

This is a young and growing college, and its needs are manifold. I take this opportunity to mention some of the more important needs of the Department of Agriculture and Horticulture.

1. Class room and laboratory rooms with conservatory. Classes are now held wherever, through the courtesy of the Professors of other departments, a place can be found. A building of sufficient size to accommodate the Department of Agriculture and Domestic Science, located in the vicinity of the Dormitory, would greatly increase the efficiency and future successful development of these departments. Rooms in which to give class instruction is the most pressing need of the Department of Agriculture and Horticulture at the present time.

2. Increase in the force of assistants. As the class work increases, more time must be given to class instruction. The instructors in this Department, as well as those in some other departments, occupy positions in the Experiment Station, and must necessarily give over a portion of their time to the important work of experimental investigation.

3. Additional farm land. The present irrigable land on the college farm is but little more than is needed by the Station for experimental work in agriculture, horticulture, and soil. There is little opportunity for pasturage or for growing forage for the support of stock, such as cattle, horses, sheep, goats, and swine, which is essential to class instruction in animal husbandry and dairying.

4. A residence building for the farm foreman. It is quite difficult to obtain satisfactory results in handling stock and in the management of the farm when all the men employed live two or three miles away. A residence building upon the farm would enable other help or students having regular details of work to obtain rooms and board handy at a reasonable figure.

5. This is eminently a hay producing country. Nothing could assist the student to a broad practical view of methods of handling hay more than carefully selected equipment of approved hay handling machinery for use upon the farm for instruction purposes.

5. A dairy or creamery. At the present time we have no means of giving practical instruction in the manufacture and handling of dairy products.

7. Equipment for illustrating commercial methods of grading fruits, sorting and bunching vegetables for market, and showing methods of utilizing culls and refuse products.

The writer wishes at this time to express his gratitude for the generous support the department has received since he took charge of the work. Respectfully submitted,

J. J. Vernon,
Professor of Agriculture and Horticulture.

DEPARTMENT OF ENGLISH AND LATIN.

President Luther Foster.

Sir: As Professor of English, I have the honor to submit the following report:

Subject.	No. of recitations.	Students enrolled.	Name of Subject.	Instructors.
Sub-Fresh. English	4	39	American Lit.	Prof. Davis
Freshman English	5	60	Composition and Rhetoric	Prof. Hadley
Sophomore English	5	17	English Lit.	Prof. Davis
Junior English	1	11	19th Century Lit.	Miss Baker
Senior English	2	10	Advanced Conposition.	Prof. Davis
Seminary	5	10 Selected for each program	Drill in debates, essays and orations and Public speaking.	Prof. Davis
Freshman Latin	5	10	First Year Latin.	Prof. Hoblit
Sophmore Latin	5	9	Caesar, Cicero.	Prof. Davis

You will observe that the time devoted to English in the Sub-Freshman class has been increased from two hours per week to four. We found that two hours per week was entirely inadequate to meet the demands of the class. The pupils of this class have done very little reading; the majority are very deficient both in speaking and writing English, due, no doubt, to the fact that most of them come from homes in which only Spanish is spoken; they have a very limited knowledge, if any, of our American writers; they are at an impressionable age, when a taste for good reading should be created. Taking these things into consideration, we have endeavored to establish a good practical course in the first year class, which will stimulate a taste for the best literature and which will give the students a knowledge of our best writers and their works.

The Freshman class is doing excellent work in Composition and Rhetoric under Professor Hadley.

The work done by Miss Baker in the Junior class is much appreciated.

The Seminary is an innovation in our department which is already reaping good results. It is an organization composed of all students taking English, the object of which is to promote an interest in debates, orations, and essays. It is directly under the supervision of the head of the department and each participant receives individual instruction in delivery and composition.

In order to equip our department properly, it was necessary to spend about five hundred dollars on text-books. These, together with the general library, afford excellent material for our work.

It will be a source of satisfaction to you to know that, after a year of careful planning and revising, we have a good course, particularly adapted to the needs of the pupils in our college, and that we are now in excellent shape to do satisfactory work in our department.

Two years are devoted to the study of Latin. The student is able in that time to grasp the principles of derivation, which are so needful in his scientific work.

Yours respectfully,

EDITH DAVIS,
Professor of English and Latin.

DEPARTMENT OF MECHANICAL ENGINEERING.

President Luther Foster.

SIR: In accordance with your request I herewith submit a report of the Mechanical Engineering Department.

This is the first report of this department that has been made since the year 1895, and, owing to the late date of the request, the report is not as complete and comprehensive as might be desired. I am especially pleased to have the opportunity of making this report, however, and hope that it will be the means of showing that, notwithstanding the crowded condition of some parts of the shops, the work has been carried on with a fair degree of satisfaction.

The number of individual students enrolled in this department during the college year, 1901-1902, was forty-one (41). Of these seven (7) took the Mechanical Engineering course; fifteen (15) took the two years' course in Practical Mechanics; and the remainder were either Senior Preparatory or special students who had not at that time elected which college course they wished to pursue.

The following table will show the subjects taught and the number of students enrolled in each class during the first term of the school year 1901-1902:

	Wood Turning	Free Hand Drawing	Geometrical Drawing	Carpentry	Elements of Construct'n	Elementary Mechanics	Machine Work	Machine Design	Hydraulics	Steam Engine					
Senior Preparatory....	6	8	....	6	6	....	....	....	....	....	....	....	....	....	26
Practical Mechanics...	7	14	12	5	13	....	1	....	....	....	....	....	....	....	52
Freshman..............	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sophmore..............	....	....	....	....	....	....	....	....	....	....	....	....	....	..	....
Junior................	....	....	....	....	....	2	4	2	....	....	....	....	....	....	8
Senior................	....	....	....	....	....	....	....	....	2	2	....	....	....	....	4
															90

Second term, 1901 and 1902.

	Free Hand Drawing	Geometrical Drawing	Forging	Carpentry	Wood Turning	Descriptive Geometry	Machine Work	Mechanical Drawing	Strength of Materials	Engine and Boiler Tests	Roofs and Bridges	Mechanism		
Sen. Preparatory	12	2	2	10	....	....	....	....	....	....	....	....	....	26
Practical Mechanics.......	11	11	11	2	2	....	1	....	...	....	....	....	....	38
Freshman....................	2	2	2	....	....	....	....	2	....	....	....	....	....	8
Sophmore....................	....	....	....	....	....	1	....	....	....	....	....	....	....	1
Junior........................	....	....	....	....	....	....	....	....	1	....	....	....	....	1
Senior.........................	....	....	....	....	....	....	....	....	1	2	1	2	....	6
														80

Third term, 1902.

	Free Hand Drawing	Geometrical Drawing	Carpentry	Mechanical Drawing	Wood Turning	Steam Boilers	Engineering Structures	Electrical Engineering	Machine Design	Thesis				
Sen. Preparatory	3	2	3	1	....	....	....	....	....	....	....	....	....	9
Practical Mechanics.......	11	3	7	7	4	....	....	....	1	....	....	....	....	33
Freshman....................	1	1	2	2	....	....	....	....	....	....	....	....	....	6
Sophmore....................	....	....	1	....	....	....	....	....	....	....	....	....	....	1
Junior........................	....	....	....	...	....	1	1	....	....	....	....	....	....	2
Senior.........................	....	....	....	....	....	1	2	3	....	2	....	....	....	8
														59

The following table will show the subjects taught and the number of students enrolled in each class during the first term of the school year 1902-1903, which shows a gain of about sixty in the number of students over the first term of 1901-1902.

	Wood Turning.	Free Hand Drawing	Forging	Carpentry	Machine Work	Pattern Making	Machine Design	Ele. Mechanics	Mechanical Drawing	Steam Engine				2d yr. Carpentry	
Senior Preparatory....	1	12	....	11	....	....	....	....	....	....	....	....	....	....	24
Practical Mechanics .	24	29	31	6	2	....	3	....	2	....	....	....	....	2	99
Freshman...............	5	1	6	....	....	....	....	....	....	....	....	....	....	....	12
Sophomore..............	....	....	1	1	....	3	....	....	1	....	....	....	....	....	6
Junior.....................	....	....	....	....	2	....	2	2	....	....	....	....	....	....	6
Senior.....................	....	....	....	....	1	....	1	....	....	1	....	....	....	....	3
															150

In addition to the regular class work, the department has charge of the water supply for domestic and laboratory purposes. The department has made several very creditable exhibits of work done by the students in the shops and drawing rooms at the Territorial Fair held at Albuquerque and at El Paso, Texas, during the carnival.

There have been six (6) men graduated from this department.

A two years' course in Practical Mechanics was introduced at the beginning of this year. This course was designed for young men who have not the time to pursue the regular four years' course in Mechanical Engineering.

During the year 1896 an expediture of $5,000 was made for apparatus for this department, a list of which has been published several times and it seems unnecessary to repeat the same here. Since that time, however, there have been several important additions made to this equipment, viz., one 13 H. P. Priestman oil engine, one sensitive drill, one gas pipe threading machine, one 60,000 lbs. testing machine, one gas engine indicator, six models for instruction in descriptive geometry, one wood model of steam engine mechanism, one brass furnace.

Valuable additions have been made in the department library in the form of sixty-six (66) bound volumes of the standard engineering periodicals.

The greatest need of the department is more space; an entirely new building is neded for Forge Shop and Foundry. The Forge Shop is at present located in an old frame building 30x60 feet, about one-half of which is used for store and warehouse purposes by the whole college, and the brass furnace which is on hand has not been erected on account of lack of space for the same.

The large increase in attendance this year, 1902-1903, as shown in table 4, is crowding the equipment of the shops to their utmost capacity. Notwithstanding the fact that the equipment in the forge shop has just been increased fifty per cent, yet, owing to the large number of students taking this work, it is necessary to divide the class into three sections, and practically the same condition exists in the wood shop.

The room used for Free Hand Drawing is crowded to overflowing.

In this connection I would like to say that it is very gratifying to see the large number of Mexican boys who are taking the Two Years' Course in Practical Mechanics this year, the number enrolled being eighteen (18).

A circular saw has recently been placed in position to be used for sawing fire-wood for heating the college buildings.

Respectfully submitted,

Chas. Mills,

Professor of Mechanical Engineering.

DEPARTMENT OF SPANISH.

President Luther Foster.

Sir: The large number of Spanish speaking people in New Mexico and the nearness of the Territory to the Republic of Mexico lend particular importance to the study of Spanish in this college.

In our work especial emphasis is placed upon the value of a practical knowledge of Spanish, and to this end conversational methods are, as far as practicable, employed in the class-room. A valuable school for practice is the "Liceo Cervantes," a literary society whose work is done exclusively in Spanish. Students are urged to take an active part in this society, and the interest manifested is encouraging.

A general course of two years in the language is offered, and in addition, a year of commercial Spanish is available. The latter is designed to prepare students for work in business houses of Spanish speaking countries, and consists of reading, dictation, translation, letter-writing and conversation in Spanish.

Dnring the past year upwards of sixty students have been enrolled in the various classes of this language.

The library of the college is supplied with valuable text and reference books, and an order has recently been placed for a hundred volumes of representative literary works of Spain, from the earliest period up to the present. These books will give the general student a large amount of attractive reading matter, and will afford the opportunity to those who desire it of making a study of the literature of Spain.

Merritt L. Hoblit,
Professor of Spanish.

PREPARATORY DEPARTMENT.

President Luther Foster.

Sir: In outlining the work of this department, the main object has been to prepare students for the different college courses. Pupils who were not able to take a full college course have here obtained instruction equivalent to a good high school.

During the school year ending June, 1902, the work of the lowest class (C) was a little below that of the sixth grade in the public school. Since then the standard of admission has been raised, so as to make it conform to the requirements of the sixth grade of the course of study adopted by the Territorial Board of Education for the schools of New Mexico.

Some special classes were also provided for those pupils, over 16 years of age, who were behind the regular classes. Into these special classes about twenty pupils were gathered, mostly from isolated ranches and small settlements.

The teachers have been well supplied with political, historical and relief maps, globes, mathematical blocks, measuring instruments, dictionaries, encyclopedias, etc. When necessary, they have had free use of the appliances with which the other departments of the college are so well supplied.

All studnts have been encouraged to draw books from the library and form a taste for reading good literature. Several books, particularly adapted to the age of the students, were selected from the general library and placed in the study rooms, also a small library, purchased for the special use of these students.

Recently the regents authorized the purchase of a piano for this department. It will be a great source of attraction and culture for these young people.

For the year ending June, 1902, the enrollment was 114; the average atendance, 89.6; the per cent of attendance, 94. For the months of September and October, 1902, there has been an increased enrollment over the same months one year ago. There has been a notable improvement in the scholarship and deportment of the pupils compared with this period last year.

The rooms which the department occupies are entirely too small; the ceilings are too low; the largest room is not sufficiently well lighted; the ventilation is also necessarily poor. These rooms are located in the basement of the main college building and are entirely unfit for school purposes. Nothwithstanding these unfavorable conditions, the rooms are over-crowded. There is an urgent necessity for rooms affording a much larger seating capacity; double the present size would be none too large. It would be but a short time before they could be filled.

Very respectfully,
D. M. Richards,
Principal of Preparatory Department.

TREASURER'S REPORT.

Report on Territorial Funds for the Period Beginning July 1, 1901, and Ending Nov. 30, 1902.

Financial Statement No. 1. Territorial General Fund.

RECEIPTS.

Balance on hand (as per last annual report)	$ 277 27	
From Territory	5,548 61	
From Matriculation and Tuition Fees	1,178 50	
From Miscellaneous Fees	5 15	
From Insurance Claim Paid	218 50	
From Roswell Sub-station Fund	1,380 30	
		$ 8,608 33

DISBURSEMENTS.

For Salaries	$ 3,115 83	
For Music	35 00	
For Textbooks	110 09	
For Student Labor	383 32	
For Traveling Expenses	417 45	
For Insurance	694 40	
For Stationery, Printing and Advertising	690 90	
For Heat, Light and Water	71 94	
For Girls' Dormitory	197 83	
For Library	32 84	
For Labor	189 50	
For Furniture and Property	424 87	
For Miscellaneous Expenses	563 22	
For Building, Improvement and Repairs	489 46	
For Ten Per Cent. Paid of Deficiency Subscription	513 00	$ 7,929 75
Balance on hand		$ 678 58

Financial Statement No. 2. Roswell Sub-Station Fund.

Receipts and Disbursements for the Period Beginning July 1, 1901, and Ending Nov. 30, 1902.

Balance on hand as shown by last annual report		$ 1,893 30
Paid 10 per cent. repayment of deficiency subscripn.	$ 513 00	
Transferred to Territorial General Fund	1,380 30	
		$ 1,893 30

TERRITORY OF NEW MEXICO,)
)ss.
County of Dona Ana)

H. B. Holt, Secretary and Treasurer of the Board of Regents of the New Mexico College of Agriculture and Mechanic Arts, says the foregoing financial statements do represent a true and correct statement of all moneys received and disbursed by and for the New Mexico College of Agriculture and Mechanic Arts, for and during the period named and the purposes stated in said financial statements, and that properly signed vouchers are on file for all disbursements shown by said financial statements to have been made.

In witness whereof, I have hereunto attached the seal of the Board of Regents and subscribed my name.

H. B. HOLT,
Secretary and Treasurer of the Board of Regents
of the New Mexico College of Agriculture and
Mechanic Arts.

SPRING TERM, 1902.

FALL TERM, 1902.

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